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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23543 7590 06/12/2008
AIR PRODUCTS AND CHEMICALS, INC.
PATEINT DEPARTMENT
7201 HAMILTON BOHLEVARD

ALLENTOWN, PA 181951501

| EXAMINER                |              |  |  |  |
|-------------------------|--------------|--|--|--|
| SAN MARTIN, JAYDI A     |              |  |  |  |
| ART UNIT                | PAPER NUMBER |  |  |  |
| 2834                    |              |  |  |  |
| DATE MAILED: 06/12/2008 |              |  |  |  |

| APPLICATION NO.   | FILING DATE | FIRST NAMED INVENTOR   | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|---|-------------|------------------------|---------------------|------------------|--|
| 10/785,298  | 02/24/2004  | Wayne Thomas McDermott | 06472 USA           | 2078             |  |
| TITLE OF INVENTION: TRANSMISSION OF ULTRASONIC ENERGY INTO PRESSURIZED FLUIDS |             |                        |                     |                  |  |

 APPLY, TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV, PAID ISSUE FEE
 TOTAL FEE(s) DUE
 DATE DUE

 nonprovisional
 NO
 \$1440
 \$300
 \$0
 \$1740
 09/12/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| INSTRUCTIONS: This<br>appropriate. All further<br>indicated unless correcte<br>maintenance fee notifical   | form should be used f<br>correspondence includir<br>ed below or directed oth   | or tran<br>ig the l<br>ierwise                | smitting the ISSU<br>Patent, advance or<br>in Block 1, by (a  | TE FEE and PUBLICAT<br>ders and notification of<br>a) specifying a new corre  | TON FEE (if requestion requestion in the contract of the contr | ired). l<br>vill be<br>; and/o                 | Blocks 1 through 5 st<br>mailed to the current<br>(b) indicating a sepa  | nould be completed where<br>correspondence address as<br>rate "FEE ADDRESS" for  |
|--|--|---|---|---|--|--|--|--|
| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)   |  |   | Not<br>Fee<br>pap<br>bay  | Note: A certificate of mailing can only be used for domestic mailings of the<br>Fe(s) Transmittal. This certificate cannot be used for any other accompanying<br>papers. Each additional paper, such as an assignment or formal drawing, must<br>have its own certificate of mailing or transmission. |  |  |  |  |
| PATENT DEPA<br>7201 HAMILTO  | N BOULEVARD  |   | S, INC.   | I be  | Cer  | tificat  | of Mailing or Trans  |  |
| ALLENTOWN,   | PA 181951501   |   |   |   |  |  |  | (Depositor's name)   |
|  |  |   |   |   |  |  |  | (Signature)  |
|  |  |   |   |   |  |  |  | (Date)   |
| APPLICATION NO.  | FILING DATE  |   |   | FIRST NAMED INVENTOR  | t .  | ATTC   | RNEY DOCKET NO.  | CONFIRMATION NO.   |
| 10/785,298   | 02/24/2004   |   | ,   | Wayne Thomas McDermo  | et.  |  | 06472 USA  | 2078   |
|  |  |   |   | 7 INTO PRESSURIZED I  |  |  |  |  |
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| nonprovisional   | NO   |   | \$1440  | \$300   | \$0  |  | \$1740   | 09/12/2008   |
| EXAM   | INER   |   | ART UNIT  | CLASS-SUBCLASS  | ]  |  |  |  |
| SAN MARTI  | N, JAYDI A   |   | 2834  | 310-323190  |  |  |  |  |
| "Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A   | ondence address (or Cha<br>3/122) attached.<br>ication (or "Fee Address<br>2 or more recent) attach<br>ND RESIDENCE DAT/<br>ess an assignee is ident<br>h in 37 CFR 3.11. Comp | nge of 6 " Indica ed. Use                     | Correspondence  ution form  of a Customer   | 2. For printing on the judy (1) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent attisted, no name will be the PATENT (print or ty data will appear on the judy and the printing and (B) RESIDENCE: (CTT)                                 | o 3 registered pater<br>vely,<br>le firm (having as a<br>agent) and the nam<br>wreys or agents. If<br>printed.<br>pe)<br>batent. If an assign<br>assignment.   | n memb<br>n memb<br>nes of u<br>no nan         | p to p to ge is 3  | ocument has been filed for   |
| Please check the appropri  | iate assignee category or  | catego  | ries (will not be pr  | inted on the patent):   | Individual 🗆 C   | orporat  | on or other private gro  | up entity Government   |
| Advance Order - #  | o small entity discount p  |   | ed)   | o. Payment of Fee(s): (Ple  A check is enclosed.  Payment by credit ca  The Director is hereb overpayment, to Depo  | rd. Form PTO-2038<br>v authorized to cha   | is att   | ched.<br>required fee(s), any de   |  |
|  | s SMALL ENTITY state   | is. See 3                                     | 37 CFR 1.27.  | b. Applicant is no lor  |  |  |  |  |
| interest as shown by the   | d Publication Fee (if requeecords of the United Sta  | uired) v<br>tes Pate                          | vill not be accepted<br>ent and Trademark   | Office.   | the applicant; a reg   | istered  | attorney or agent; or th   | e assignee or other party in   |
| Authorized Signature   |  |   |   |   | Date   |  |  |  |
| Typed or printed name  |  |   |   |   | Registration 1   |  |  |  |
| This collection of inform<br>an application. Confident<br>submitting the completes<br>this form and/or suggesti<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223 | ation is required by 37 C<br>tiality is governed by 35<br>I application form to the<br>ons for reducing this but<br>irginia 22313-1450. DC<br>13-1450.                         | FR 1.3<br>U.S.C.<br>USPT<br>rden, sh<br>O NOT | 11. The informatic<br>122 and 37 CFR<br>O. Time will vary<br>lould be sent to the<br>SEND FEES OR O | on is required to obtain or<br>1.14. This collection is es<br>depending upon the indi<br>e Chief Information Offic<br>COMPLETED FORMS T   | retain a benefit by<br>timated to take 12<br>vidual case. Any co<br>er, U.S. Patent and<br>O THIS ADDRES:  | the pub<br>minute<br>ommen<br>Trader<br>S. SEN | tic which is to file (and<br>to complete, including<br>s on the amount of tire<br>ark Office, U.S. Dep<br>D TO: Commissioner | by the USPTO to process)<br>g gathering, preparing, and<br>ne you require to complete<br>utment of Commerce, P.O.<br>for Patents, P.O. Box 1450, |

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DATE MAILED: 06/12/2008

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|-------------------------|----------------|------------------------|---|------------------|--|
| 10/785,298              | 02/24/2004     | Wayne Thomas McDermott | 06472 USA   | 2078             |  |
| 23543 75                | 90 06/12/2008  |                        | EXAM  | IINER            |  |
| AIR PRODUCTS            | S AND CHEMICAL | SAN MARTIN, JAYDI A    |   |                  |  |
| PATENT DEPAR            |                | ART UNIT               | PAPER NUMBER  |                  |  |
| 7201 HAMILTON           |                | 2834                   |   |                  |  |
| ALLENTOWN, PA 181951501 |                |                        | TO A STEEL DATE OF THE OWNERS |                  |  |

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 683 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 683 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Notice of Allowability

| Application No.     | Applicant(s)     |
|---------------------|------------------|
| 10/785,298          | MCDERMOTT ET AL. |
| Examiner            | Art Unit         |
| lavdi A San Martin/ | 2834             |

| The MAILING DATE of this communication appears on it<br>All claims being allowable, PROSECUTION ON THE MERITS IS (OR REM<br>herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other:<br>NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. 1<br>of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPI.  | MAINS) CLOSED in this application. If not included<br>appropriate communication will be mailed in due course. THIS<br>This application is subject to withdrawal from issue at the initiati                                      |
|--|---|
| <ol> <li>This communication is responsive to <u>RCE/IDS filed 5/7/08</u>.</li> </ol>   |   |
| 2. The allowed claim(s) is/are <u>12-23</u> .  |   |
| 3.  ☐ Acknowledgment is made of a claim for foreign priority under 35 U  a) ☐ All b) ☐ Some* c) ☐ None of the:  1.  ☐ Certified copies of the priority documents have been re:  2.  ☐ Certified copies of the priority documents have been re:  3.  ☐ Copies of the certified copies of the priority documents International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  | ceived.<br>ceived in Application No   |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of this conted below. Failure to timely comply will result in ABANDONMENT of tITHS THREE-MONTH PERIOD IS NOT EXTENDABLE.  |   |
| <ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submitted. Not<br/>INFORMAL PATENT APPLICATION (PTO-152) which gives reason</li> </ol>   |   |
| 5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be subrition (a) ☐ including changes required by the Notice of Draftsperson's Pate 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ☐ (b) ☐ including changes required by the attached Examiner's Amendri Paper No./Mail Date ☐ Identifying indicia such as the application number (see 37 CFR 1.84(c)) sheach sheet. Replacement sheet(s) should be labeled as such in the header of the state of the state of the state of BIG attached Examiner's comment regarding REQUIREMENT FOR THE | ant Drawing Review ( PTO-948) attached  ment / Comment or in the Office action of  build be written on the drawings in the front (not the back) of according to 37 CFR 1.121(d).  DLOGICAL MATERIAL must be submitted. Note the |
| Attachment(s) 1.   | 5. Notice of Informal Patent Application  |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4/08, 5/08   | 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment   |
| <ol> <li>Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol>  | ⊠ Examiner's Statement of Reasons for Allowance     □ Other   |
|  |   |